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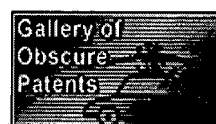
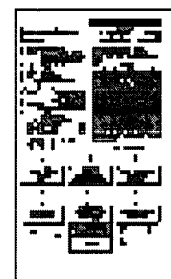
Buy Now: [More choices...](#)Tools: Add to Work File: [Create new Work File](#) View: [INPADOC](#) | Jump to: [Top](#) Go to: [Derwent...](#)☐ [Email this to a friend](#)Title: **JP9157934A2: HEAD BAND WITH FAN AND TOOL THEREFOR**Country: **JP Japan**Kind: **A**Inventor: **KOBAYASHI TOYOHIRO;**Assignee: **KOBAYASHI TOYOHIRO**
[News, Profiles, Stocks and More about this company](#)Published / Filed: **June 17, 1997 / Dec. 2, 1995**Application Number: **JP1995000346583**IPC Code: **A42B 3/28; A42C 5/04; H01L 31/04;**Priority Number: **Dec. 2, 1995 JP1995000346583**

Abstract:

PROBLEM TO BE SOLVED: To provide a head band with a fan, capable of mounting after wearing a hat or a helmet as freely demountable, and rotating the fan in the vicinity of a human face by utilizing a sun energy to obtain a coolness.

SOLUTION: This head band and a tool having a fan is constructed by installing a solar battery 2 at the top part of the head band 1 mounted on a hat or a helmet or directly on a head, and also installing a small motor 3 using the solar battery as an electric source and a fan 4 through an arm 5 at the lower portion of the head band. The arm 5 has a structure for adjusting the positions of the fan in the vicinity of the cheek of a human face by an arrangement adjusting mechanism part 6 connected to the head band 1 and capable of adjusting the length of the arm, forward and backward directions, and left and right rotations. And it is designed so as to realize the method for using by facing the tool to the sun intuitively and bodily sensationally by attaching a sun flower-shaped decoration to the solar battery 2 and painting a young leaf-like lines on the fan 4.

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Family: **None**Other Abstract Info: **DERABS G97-370029 DERG97-370029**[this for the Gallery...](#)[Nominate](#)[View Image](#)

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(72) Inventor: KOBAYASHI TOYOHIRO	
(74) Representative:	

**(54) HEAD BAND WITH FAN
AND TOOL THEREFOR**

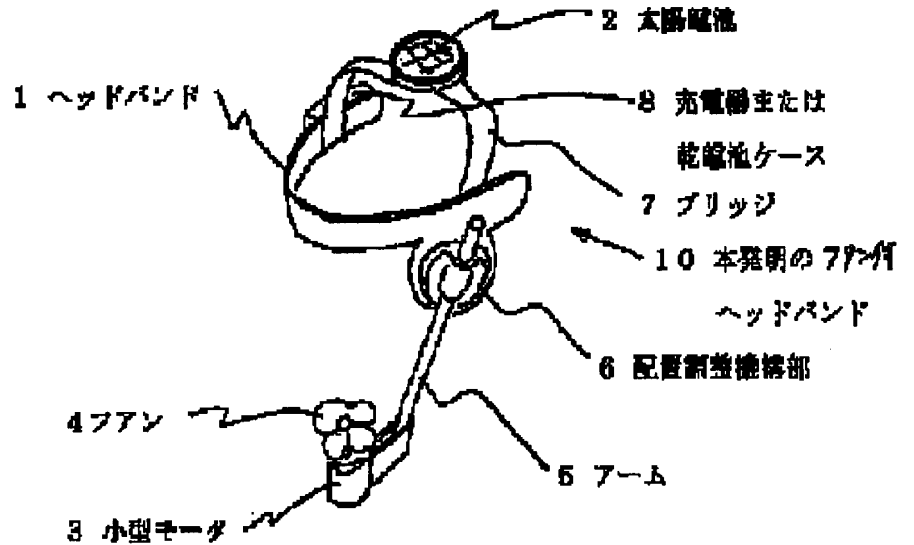
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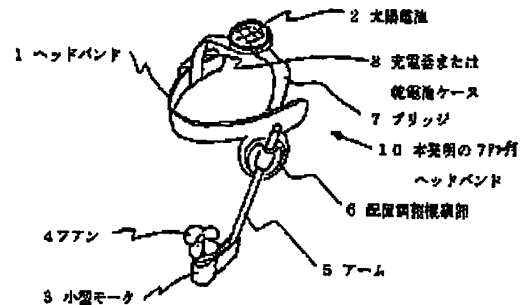
静岡県焼津市すみれ台2丁目2番11号

(54) 【発明の名称】 ファン付ヘッドバンド及び機具

(57) 【要約】

【目的】 今持っている帽子やヘルメットをかぶった後から装着出来、かつ、着脱自在なもので太陽エネルギーを利用して人の顔近傍でファンを回転させ、涼しさを得ようとするものである。

【構成】 帽子やヘルメットの上から取り付けたり、また、頭に直接つけるヘッドバンド(1)の上部に太陽電池(2)を取り付ける。ヘッドバンドの下方には、太陽電池(2)を電源とする小型モータ(3)とファン(4)をアーム(5)経由に取り付ける。アーム(5)はヘッドバンド(1)に連結した配置調整機構部(6)でアームの長さ、前後方向、左右回転調整可能とし、ファン(4)が人の顔の頬(22)近傍でその位置を調整出来る構造としている。また、太陽電池(2)にヒマワリ



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【特許請求の範囲】

【請求項1】今持っているヘルメット等帽子をかぶった後や、人の頭に直接、着脱自在に装着出来るヘッドバンド(1)を有し、その上部に太陽電池(2)を、その発電電力を電源とした、前記ヘッドバンド(1)の下方に連結した小型モータ(3)とそのファン(4)を有し、及び人の顔の頬(22)とファン(4)の位置間隔を調整する配置調整機構部(6)を有した事の特徴とするファン付ヘッドバンド。

【請求項2】前記太陽電池(2)にヒマワリの花弁様飾り(41)を取付け、同様前記小型モータのファン(4)のプロペラ部に若葉様形状描画線(42)を付けた事の特徴とする請求項第1項のファン付ヘッドバンド

【請求項3】日が陰っている時スイッチ(23)切り替えにより前記小型モータ(3)への他の電源として、前記太陽電池とは別に充電器または乾電池(31)を付帯している事の特長とするファン付ヘッドバンド。

【請求項4】帽子の頭端部をつかんで取付けるクリップ(52)が付いた太陽電池(2)と同じく使用者の襟(54)等をつかんで取り付けるクリップ(53)が付いた小型モータ(3)及びファン(4)の間に電源線(51)を設けて構成され前記請求項第1項同様一部効果を有する事の特長とする構具。

【発明の詳細な説明】

【0001】【産業上の利用分野】この発明は真夏のスポーツ観戦応援者や炎天下での作業者の帽子、ヘルメット等に若脱自在で積極的に涼しさを与えるファン付ヘッドバンドに関する。

【0002】【従来の技術】従来技術として、真夏のスポーツ観戦応援者等が涼しさを得る方法としては、特開平6-173109に開示されている如く帽子本体の前方を大きくくり貫き、小型モータとファンを取付け、また、その電源をやはり前記帽子本体の頭端部に取付けた太陽電池としたものは有った。

【0003】【発明が解決しようとする課題】しかしながら、前記従来の技術は小型モータ、ファンが帽子本体の特定位置に固定され、さらにファンからの風を通ずる為に帽子本体に大きな穴を開けなければならないこと、太陽電池も帽子本体になんらかの方法で固定しなければならない等制約の多いものであった。結果として、回転するファンが人の顔、特に目の近くに配置されざるを得ない等危険で有る。また、暑い夏に使用し、汗で汚れる帽子で有りながら洗濯出来ない。また、帽子と小型モータ、ファンを一体構造で販売するものであるから消費者が自分の好きな帽子のデザイン、種類を選べない、本

の発電電力を電源とし、同じく前記ヘッドバンド(1)の下方で人の顔の頬(22)近傍に来るように小型モータ(3)とファン(4)を配置調整する機構を有し、真夏の屋外で特に暑さを感じる顔周辺を積極的に涼しくする考案で有る。よって、帽子(21)と小型モータ(3)、太陽電池(2)等電気部品は着脱自在であるから、汗により汚れる帽子を単独で洗濯できるし、帽子を自由に選定購入できる、また、今持っている帽子、ヘルメットさえ使用出来る。さらにファンの配置調整機構部(6)により、回転するファンの位置を危険度の高い目の近くの位置からより安全な下方の頬の近傍に配置できるよう工夫している。

【0005】【作用】本発明を使用する時は、頭に直接又は帽子、ヘルメットの上から着用、風もなく、日差しが強い例えば真夏の野球観戦席での応援時、ヘッドバンド(1)の上部の太陽電池(2)が太陽光を受けると発電し、その電力で、同下方の小型モータのファン(4)が回転し風を起こし、人の顔の頬(22)周辺にそそぎ、涼しさを提供出来る。ファン(4)の位置は配置調整機構部(6)とアーム(5)で上下長さ、前後、左右角度を調整出来る。よって、頬にそそぐ風の当たり具合を調整出来る。

【0006】前記太陽電池にヒマワリの花弁様の飾り(41、以下ヒマワリ様飾り言う)と前記ファン(4)のプロペラに若葉様描画線(42)を付けることにより、本発明を使うものが直感的にヒマワリの如くいつも太陽の方向に向けて使用するものであること、また、若葉が生命あふれるかの如く若葉形ファン(4)が回転し自然の太陽エネルギーを利用して、自然にやさしい環境保全型商品であること認識せしめれる。

【0007】また、本発明を使用中、太陽が陰った時又は夜間、太陽電池(2)と並列に接続された充電器または乾電池(31)に電源を切り替えることにより、継続して小型モータとファンを回転させられる。

【0008】本発明と同様の効果をもたらす関連のもっとも簡易な方法として、太陽電池(2)をクリップ(52)で帽子に止めかつ、小型モータ(3)とファン(4)を同じくクリップ(53)で使用者の襟(54)元等に止め両者を電源線(51)で結線するものも考えられる。これは使い勝手が少々不安定であるが使用者が静止している時等は便利に使える。

【0009】【実施例】以下本発明の実施例を図1から図5に示し、以下に説明する。図1は本発明の1実施例を示す斜視図である。上から見て円形の一部を切り取った形状の頭端部の片側でヒマワリの花弁に固定する

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度、左右回転角度調整可能とした配置調整機構部(6)を前記ヘッドバンド(1)の片側に設ける。もう一方の片側には充電器又は乾電池(31)のケース(8)が取付けられる。太陽電池(2)、小型モータ(3)、ケース(8)間の配線はそれぞれヘッドバンド、ブリッジの裏側、アーム(5)の内部に配線されて構成される。図2は本発明の使用状態を示す。今持っている、又は自分の好きな帽子(21)、ヘルメット等の上から本発明のファン付ヘッドバンド(10)を着用した時の図である。使用者の顔の頬(22)の近傍にファン(4)が位置し、かつ配置調整機構部(6)でアーム(5)が上下、左右回転調整出来る様子を説明している。

【0010】図4は本発明の他の実施例を示す。前記太陽電池(2)の回にヒマワリ様の飾り(41)を取付け、同じく前記ファン(4)に若葉様描画線(42)を取付けて構成する。これにより使用者が頭上の太陽電池(2)をいつもヒマワリの様に太陽の方向に向け、よって、太陽エネルギーで若葉が生命のいふきの如く元気良く回転する。使用者が一見して使用方法、使用感を認識、体得出来る構成を追加したものである。

【0011】図3本発明の回路構成を示す。通常太陽電池(2)で発生する太陽光による発電電力はダイオード(32)を通して小型モータ(3)の駆動電力となる。太陽電池の発電電力がない時切替スイッチ(23)を閉接することにより充電器又は乾電池(31)からの電源により小型モータ(3)は継続して回転させられる様構成されている。

【0012】図5は本発明と一部同様効果のある機具の構成を示す。太陽電池(2)に帽子の頭端上部をつまむクリップ(52)を付ける。また、同様小型モータ(3)に使用者の襟(54)元等をつまむ様にクリップ(53)を付ける。前記太陽電池(2)と前記小型モータ(3)間は電源線(51)で接続される。このように構成されたものを図5に示す様に使用者の帽子と襟元に取付け涼しさを味わうものである。図中ファン(4)にネットケースをかぶせて使えばより安全で使い勝手が良いことは自明である。

【0013】図6は従来の物の例を示す。従来の技術として開示されている特開平6-173109の図1に示された物で特定の帽子(61)の前方に非常に大きな穴(65)を開けモータ(63)を固定フレーム(66)でネジ止め等固定し、ファン(64)を配している太陽電池(62)も帽子本体にネジ等で固定しているものである。これは前記「従来の技術」、「発明が解決しようとする課題」に示す様に帽子(61)の前方に大きな穴(65)を開けモータ(63)を固定フレーム(66)でネジ止め等固定し、ファン(64)を配している太陽電池(62)も帽子本体にネジ等で固定しているものである。これは前記「従来の技術」、「発明が解決しようとする課題」に示す様に帽子(61)の前方に大きな穴(65)を開けモータ(63)を固定フレーム(66)でネジ止め等固定し、ファン(64)を配している太陽電池(62)も帽子本体にネジ等で固定しているものである。

イ)本発明は帽子、ヘルメットに対し着脱自在である。よって、帽子を選ばず、今持っている帽子の上から着用できる。まして、人の頭の上に直接ヘアーバンドを装着するようにも使える。

ロ)太陽電池にヒマワリ様の飾りを、ファンに若葉様描画線(42)を付けたものは使用者が頭上の太陽電池(2)をいつもヒマワリの様に太陽の方向に向け、よって、太陽エネルギーで若葉が生命のいふきの如く元気良く回転ので、使用者が一見して使用方法を認識、体得出来る効果がある。

ハ)また、充電器又は乾電池を接続出来るようにし、切り替えスイッチにより電源を切り替えられるので太陽が陰った時、夜間での使用も出来る。

ニ)図5に示す発明は太陽電池、小型モータ、ファンがバラバラなのでコンパクトにバッグの中に入れて持ち来、携帯性に優れた効果がある。

【0015】

【図面の簡単な説明】

【図1】本発明の1実施例を示す斜視図

【図2】本発明の使用状態を示す図

【図3】本発明の1実施例の回路構成を示す図

【図4】本発明の他の実施例を示す斜視図

【図5】本発明と一部同様効果のある機具の構成を示す図

【図6】従来の物を示す図

【符号の説明】

各図中同一符号は同一品を示す

(1)本発明のヘッドバンド部

(2)太陽電池

(3)小型モータ

(4)ファン

(5)アーム

(6)位置調整機構部

(7)ヘッドバンドブリッジ

(8)充電器または乾電池ケース

(10)本発明のファン付ヘッドバンド

(21)帽子

(22)人の顔

(23)切り替えスイッチ

(31)充電器又は乾電池

(41)ヒマワリ様飾り

(42)若葉様描画線

(51)電源線

(52)、(53)クリップ

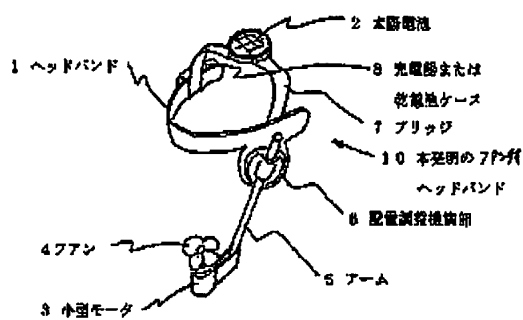
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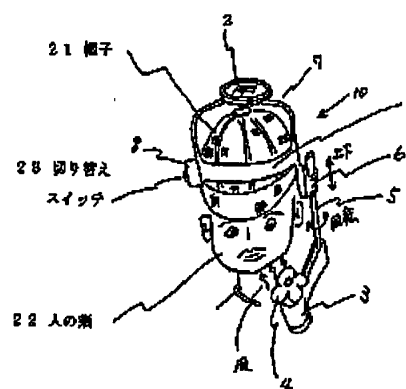
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(66) フレーム

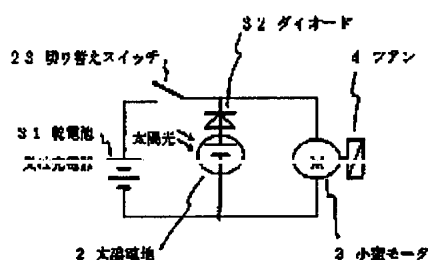
【図1】



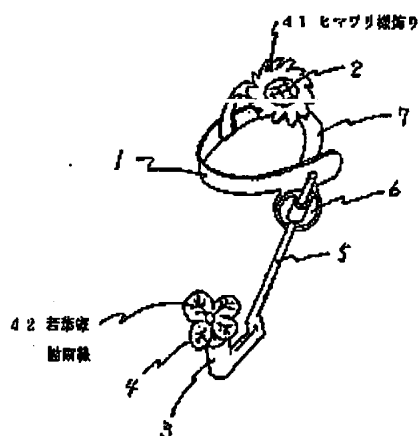
【図2】



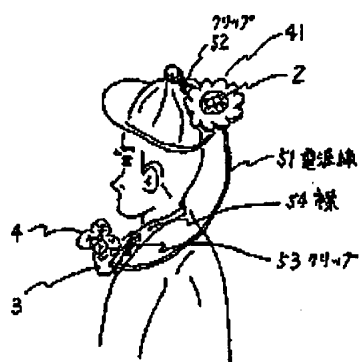
【図3】



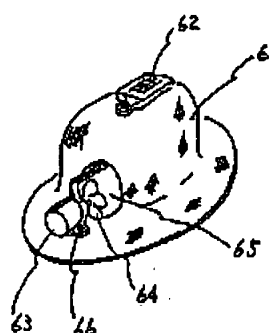
【図4】



【図5】



【図6】



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CLAIMS

[Claim(s)]

[Claim 1] It has directly the head strap (1) with which it can equip free [attachment and detachment] on people's head after wearing hats, such as a helmet which it has now. It has the small motor (3) which connected the solar battery (2) with the upper part under the aforementioned head strap (1) which used the generated output as the power supply, and its fan (4). And the head strap with a fan characterized by having the arrangement adjustment mechanism section (6) which adjusts the position interval of the cheek (22) of people's face, and a fan (4).

[Claim 2] The head strap with a fan of the 1st term of a claim characterized by having attached the petal Mr. trim (41) of a sunflower in the aforementioned solar battery (2), and attaching a Wakaba Mr. configuration drawing line to the propeller section of the fan (4) of the aforementioned small motor similarly. [Claim 3] The head strap with a fan characterized by attaching the battery charger or the dry cell (31) apart from the aforementioned solar battery as other power supplies to the aforementioned small motor (3) by switch (23) change when the day is obscured.

[Claim 4] The equipment characterized by to form a power supply line (51) between a small motor (3) with the clip (53) which holds and attaches a user's collar (54) etc. as well as a solar battery (2) with the clip (52) which holds and attaches the head edge of a hat, and a fan (4), to be constituted, and to have an effect in part like the 1st aforementioned term of a claim.

[Translation done.]

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001] [Field of the Invention] It is related with the head strap [attach / detach and / freely / this invention / on the hat of the sport games watching-aid person of midsummer, or the operator under blazing heat, a helmet, etc.] with a fan which gives cool positively.

[0002] [Description of the Prior Art] -- as a way the sport games watching-aid person of midsummer etc. gets cool, there was what was made into the solar battery which size-came, bundled and pierced through the front of the main part of a hat as indicated by JP,6-173109,A, attached the small motor and the fan, and attached the power supply in the head edge of the aforementioned main part of a hat too as conventional technology

[0003] that the hole big in order that it may be fixed to the specific position of the main part of a hat and a small motor and a fan may let the wind from a fan pass further on the main part of a hat being made, and a solar battery must also fix [Problem(s) to be Solved by the Invention], however the aforementioned Prior art to the main part of a hat by a certain method etc. were many things which are restrictions It is in risk -- as a result, the rotating fan must be stationed near people's frame, especially the eye. Moreover, it is used in hot summer, and it cannot wash, being with the hat which becomes dirty from sweat. Moreover, dysmorphism meeting bur ***** -- the hat in which the consumer cannot choose the design of favorite his own hat and a kind, furthermore has them now since a hat, a small motor, and a fan are sold by integral construction cannot be used as it is.

[0004] Generated output from the solar battery (2) arranged in the upper part of the head strap (1) whose attachment and detachment were enabled after being covered with the hat and helmet which it has now [[means for solving problem]] is used as a power supply. It has the mechanism which carries out arrangement adjustment of a small motor (3) and the fan (4) so that it may similarly come by the lower part of the aforementioned head strap (1) near the cheek (22) of people's face, and it is by the design which makes cool positively the face circumference which senses heat especially on the outdoors of midsummer. Therefore, since electrical parts, such as a hat (21), a small motor (3), and a solar battery (2), can be detached and attached freely, the hat which becomes dirty by sweat can be washed independently, and even the hat and helmet which the selection purchase of the hat can be carried out freely, and have it now can be used. It is devising so that the position of the rotating fan can furthermore be arranged by a fan's arrangement adjustment mechanism section (6) near the cheek of a lower part safer from the position near the high eye of danger.

[0005] When using a [operation] this invention, at the time of aid in the baseball seat of the midsummer when sunlight is strong, upper shell wear of direct or a hat, and a helmet and a wind are also in the head, it will generate electricity, if the solar battery (2) of the upper part of a head strap (1) receives sunlight, and it is the power and cool can be offered [the fan (4) of the small motor of this lower part rotates, breeze is made, it pours around A fan's (4)'s position can adjust a right-and-left angle with the arrangement adjustment mechanism section (6) and an arm (5) vertical length and approximately, and, therefore, can adjust the hit condition of the wind which rustles in a cheek.

[0006] the aforementioned solar battery -- the petal of a sunflower -- it needs -- decorating (41 -- it sunflower like decorating below and saying) -- by attaching a Wakaba Mr. drawing line (42) to the aforementioned fan's (4)'s propeller a Wakaba form fan (4) rotates and they are automatically easy environmental preservation type goods using natural solar energy as if it being what the thing using this invention always uses towards the direction of solar like a sunflower intuitively, and verdure were full of the life -- thing recognition is carried out -- making -- ****

[0007] Moreover, while using this invention, when the sun darkens, a small motor and a fan are continuously rotated by

changing a power supply to the battery charger or dry cell (31) connected in parallel with a solar battery (2) night. [0008] what stops a solar battery (2) on a hat with a clip (52), and similarly stops a small motor (3) and a fan (4) to a user's collar (54) dimension etc. with a clip (53) as the simplest method of the relation which brings about the same effect as *****, and connects both by the power supply line (51) is considered This can be conveniently used, while the user is standing it still, although user-friendliness is a little unstable.

[0009] The example of [Example], with Shimomoto invention is shown in drawing 5 from drawing 1 , and it explains below. Drawing 1 is the perspective diagram showing one example of this invention. The bridge (7) for making a **** up position fix a solar battery (2) to the head strap (or for it to also be called a hair band) (1) fixed to the head in the position of the regio occipitalis capitis ranging over the center-section ends by the spring force it is narrow weak with the configuration which saw from the top and cut off the circular part is connected. The arrangement adjustment mechanism section (6) which enabled vertical length, an order angle, and right-and-left angle-of-rotation adjustment of the cylindrical arm (5) connected with the small motor (3) made to rotate a fan (4) furthermore and it is prepared in one side of the aforementioned head strap (1). The case (8) of a battery charger or a dry cell (31) is attached in another one side. A head strap, the background of a bridge, and inside an arm (5), the wiring between a solar battery (2), a small motor (3), and a case (8) is wired, respectively, and is constituted. Drawing 2 shows the busy condition of this invention. It has now or is drawing when wearing the head strap with a fan (10) of upper shell this inventions, such as favorite its own hat (21) and a helmet. Signs that a fan (4) is located near the cheek (22) of a user's face, and the right-and-left rotation adjustment of the arm (5) can be fluctuated and carried out in the arrangement adjustment mechanism section (6) are explained.

[0010] Drawing 4 shows other examples of this invention. A trim (41) like a sunflower is attached in the time of the aforementioned solar battery (2), and, similarly a Wakaba Mr. drawing line (42) is attached and constituted to the aforementioned fan (4). Thereby, a user always turns the solar battery (2) of overhead location in the direction of solar like a sunflower, and, therefore, verdure rotates with sufficient energy like the breath of a life by solar energy. The composition which a user glances, and can recognize and master operation and a feeling of use is added.

[0011] The circuitry of the drawing 3 this invention is shown. Usually, the generated output by the sunlight generated in a solar battery (2) turns into drive power of a small motor (3) through diode (32). When there is no power generation force of a solar battery, it is constituted by closed-**(ing) a circuit changing switch (23) so that a small motor (3) may be continued by the power supply from a battery charger or a dry cell (31) and it may be rotated.

[0012] Drawing 5 shows the composition of this invention and the equipment which is effective similarly in part. The clip (52) which pinches the **** upper part of a hat is attached to a solar battery (2). Moreover, a clip (53) is attached so that a user's collar (54) origin etc. may be similarly pinched on a small motor (3). It connects by the power supply gland (51) between the aforementioned solar battery (2) and the aforementioned small motor (3). Thus, as what was constituted is shown in drawing 5 , it attaches in a user's hat and the neck and cool is tasted. it being more safe and being user-friendly, if it uses putting a network case on the fan in drawing (4) -- obvious -- it is .

[0013] Drawing 6 shows the example of the conventional object. the very big hole (65) ahead of a specific hat (61) is made by the object shown in drawing 1 of a Prior art and JP,6-173109,A currently indicated, a motor (63) is fixed in screw stop etc. with a fixed frame (66), and the solar battery (62) which has allotted the fan (64) is fixed to the main part of a hat with the screw etc. -- it is a thing As shown in the above "a Prior art" and "Object of the Invention", this cannot separate a hat, a fan, a motor, etc. easily, but, therefore, has much problem -- a hat cannot be washed -- and fault.

[0014]

[Effect of the Invention] Since it is, this invention has the thing which is what starting and which is the following as the effect.

b) this invention can be freely detached and attached to a hat and a helmet. Therefore, a hat is not chosen but it can wear from the hat which it has now. Furthermore, it can use so that it may equip with a direct hair band on people's head.

b) a solar battery -- a sunflower -- a user always turns the solar battery (2) of overhead location in the direction of solar like a sunflower, therefore, verdure is rotation with energy sufficient like the breath of a life in solar energy, and some which trimmed [like] the fan for the Wakaba Mr. drawing line are effective in a user glancing, and being able to recognize and master operation

c) Moreover, it enables it to connect a battery charger or a dry cell, and since the power supply was changed with the

changeover switch, when the sun darkens, use in night can also be performed.

d) Since a solar battery, a small motor, and a fan are rose roses, invention shown in drawing 5 can be compactly put in into a bag, and it has the effect excellent in portability.

[0015]

[Translation done.]

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TECHNICAL FIELD

[Field of the Invention] It is related with the head strap [attach / detach and / freely / this invention / on the hat of the sport games watching-aid person of midsummer, or the operator under blazing heat, a helmet, etc.] with a fan which gives cool positively.

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PRIOR ART

[Description of the Prior Art] -- as a way the sport games watching-aid person of midsummer etc. gets cool, there was what was made into the solar battery which size-came, bundled and pierced through the front of the main part of a hat as indicated by JP,6-173109,A, attached the small motor and the fan, and attached the power supply in the head edge of the aforementioned main part of a hat too as conventional technology

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EFFECT OF THE INVENTION

[Effect of the Invention] Since it is, this invention has the thing which is what starting and which is the following as the effect.

b) this invention can be freely detached and attached to a hat and a helmet. Therefore, a hat is not chosen but it can wear from the hat which it has now. Furthermore, it can use so that it may equip with a direct hair band on people's head.

b) a solar battery -- a sunflower -- a user always turns the solar battery (2) of overhead location in the direction of solar like a sunflower, therefore, verdure is rotation with energy sufficient like the breath of a life in solar energy, and some which trimmed [like] the fan for the Wakaba Mr. drawing line are effective in a user glancing, and being able to recognize and master operation

c) Moreover, it enables it to connect a battery charger or a dry cell, and since the power supply was changed with the changeover switch, when the sun darkens, use in night can also be performed.

d) Since a solar battery, a small motor, and a fan are rose roses, invention shown in drawing 5 can be compactly put in into a bag, and it has the effect excellent in portability.

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TECHNICAL PROBLEM

that the hole big in order that it may be fixed to the specific position of the main part of a hat and a small motor and a fan may let the wind from a fan pass further on the main part of a hat being made, and a solar battery must also fix [Problem(s) to be Solved by the Invention], however the aforementioned Prior art to the main part of a hat by a certain method etc. were many things which are restrictions It is in risk -- as a result, the rotating fan must be stationed near people's frame, especially the eye. Moreover, it is used in hot summer, and it cannot wash, being with the hat which becomes dirty from sweat. Moreover, dysmorphism meeting bur ***** -- the hat in which the consumer cannot choose the design of favorite his own hat and a kind, furthermore has them now since a hat, a small motor, and a fan are sold by integral construction cannot be used as it is.

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MEANS

[problem. Generated output from the solar battery (2) arranged in the upper part of the head strap (1) whose attachment and detachment were enabled after being covered with the hat and helmet which it has now [means] for solving is used as a power supply. It has the mechanism which carries out arrangement adjustment of a small motor (3) and the fan (4) so that it may similarly come by the lower part of the aforementioned head strap (1) near the cheek (22) of people's face, and it is by the design which makes cool positively the face circumference which senses heat especially on the outdoors of midsummer. Therefore, since electrical parts, such as a hat (21), a small motor (3), and a solar battery (2), can be detached and attached freely, the hat which becomes dirty by sweat can be washed independently, and even the hat and helmet which the selection purchase of the hat can be carried out freely, and have it now can be used. It is devising so that the position of the rotating fan can furthermore be arranged by a fan's arrangement adjustment mechanism section (6) near the cheek of a lower part safer from the position near the high eye of danger.

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 OPERATION

[Operation] this invention. When using it, at the time of aid in the baseball seat of the midsummer when sunlight is strong, upper shell wear of direct or a hat, and a helmet and a wind are also in the head, it will generate electricity, if the solar battery (2) of the upper part of a head strap (1) receives sunlight, and it is the power and cool can be offered [the fan (4) of the small motor of this lower part rotates, breeze is made, it pours around the cheek (22 A fan's (4)'s position can adjust a right-and-left angle with the arrangement adjustment mechanism section (6) and an arm (5) vertical length and approximately, and, therefore, can adjust the hit condition of the wind which rustles in a cheek. [0006] the aforementioned solar battery -- the petal of a sunflower -- it needs -- decorating (41 -- it sunflower like decorating below and saying) -- attaching a Wakaba Mr. drawing line (42) to the aforementioned fan's (4)'s propeller a Wakaba form fan (4) rotates and they are automatically easy environmental preservation type goods using natural solar energy as if it being what the thing using this invention always uses towards the direction of solar like a sunflower intuitively, and verdure were full of the life -- thing recognition is carried out -- making -- **** [0007] Moreover, while using this invention, when the sun darkens, a small motor and a fan are continuously rotated by changing a power supply to the battery charger or dry cell (31) connected in parallel with a solar battery (2) night. [0008] what stops a solar battery (2) on a hat with a clip (52), and similarly stops a small motor (3) and a fan (4) to a user's collar (54) dimension etc. with a clip (53) as the simplest method of the relation which brings about the same effect as *****, and connects both by the power supply line (51) is considered This can be conveniently used, while the user is standing it still, although user-friendliness is a little unstable.

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EXAMPLE

The example of [Example], with Shimomoto invention is shown in drawing 5 from drawing 1, and it explains below. Drawing 1 is the perspective diagram showing one example of this invention. The bridge (7) for making a **** up position fix a solar battery (2) to the head strap (or for it to also be called a hair band) (1) fixed to the head in the position of the regio occipitalis capitis ranging over the center-section ends by the spring force it is narrow weak with the configuration which saw from the top and cut off the circular part is connected. The arrangement adjustment mechanism section (6) which enabled vertical length, an order angle, and right-and-left angle-of-rotation adjustment of the cylindrical arm (5) connected with the small motor (3) made to rotate a fan (4) furthermore and it is prepared in one side of the aforementioned head strap (1). The case (8) of a battery charger or a dry cell (31) is attached in another one side. A head strap, the background of a bridge, and inside an arm (5), the wiring between a solar battery (2), a small motor (3), and a case (8) is wired, respectively, and is constituted. Drawing 2 shows the busy condition of this invention. It has now or is drawing when wearing the head strap with a fan (10) of upper shell this inventions, such as favorite its own hat (21) and a helmet. Signs that a fan (4) is located near the cheek (22) of a user's face, and the right-and-left rotation adjustment of the arm (5) can be fluctuated and carried out in the arrangement adjustment mechanism section (6) are explained.

[0010] Drawing 4 shows other examples of this invention. A trim (41) like a sunflower is attached in the time of the aforementioned solar battery (2), and, similarly a Wakaba Mr. drawing line (42) is attached and constituted to the aforementioned fan (4). Thereby, a user always turns the solar battery (2) of overhead location in the direction of solar like a sunflower, and, therefore, verdure rotates with sufficient energy like the breath of a life by solar energy. The composition which a user glances, and can recognize and master operation and a feeling of use is added.

[0011] The circuitry of the drawing 3 this invention is shown. Usually, the generated output by the sunlight generated in a solar battery (2) turns into drive power of a small motor (3) through diode (32). When there is no power generation force of a solar battery, it is constituted by closed-**(ing) a circuit changing switch (23) so that a small motor (3) may be continued by the power supply from a battery charger or a dry cell (31) and it may be rotated.

[0012] Drawing 5 shows the composition of this invention and the equipment which is effective similarly in part. The clip (52) which pinches the **** upper part of a hat is attached to a solar battery (2). Moreover, a clip (53) is attached so that a user's collar (54) origin etc. may be similarly pinched on a small motor (3). It connects by the power supply gland (51) between the aforementioned solar battery (2) and the aforementioned small motor (3). Thus, as what was constituted is shown in drawing 5, it attaches in a user's hat and the neck and cool is tasted. it being more safe and being user-friendly, if it uses putting a network case on the fan in drawing (4) -- obvious -- it is .

[0013] Drawing 6 shows the example of the conventional object. the very big hole (65) ahead of a specific hat (61) is made by the object shown in drawing 1 of a Prior art and JP,6-173109,A currently indicated, a motor (63) is fixed in screw stop etc. with a fixed frame (66), and the solar battery (62) which has allotted the fan (64) is fixed to the main part of a hat with the screw etc. -- it is a thing This describes above.

[Translation done.]

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] The perspective diagram showing one example of this invention

[Drawing 2] Drawing showing the busy condition of this invention

[Drawing 3] Drawing showing the circuitry of one example of this invention

[Drawing 4] The perspective diagram showing other examples of this invention

[Drawing 5] Drawing showing the composition of this invention and the equipment which is effective similarly in part

[Drawing 6] Drawing showing the conventional object

[Explanation of agreement]

Each same-among drawing sign shows the same article.

(1) The head strap section of this invention

(2) Solar battery

(3) Small motor

(4) Fan

(5) Arm

(6) Justification mechanism section

(7) Head strap bridge

(8) A battery charger or a dry cell case

(10) The head strap with a fan of this invention

(21) Hat

(22) People's face

(23) Changeover switch

(31) A battery charger or a dry cell

(41) Sunflower Mr. trim

(42) Wakaba Mr. drawing line

(51) Power supply line

(52), (53) clips

(54) Collar

(61) Hat

(62) Solar battery

(63) Motor

(64) Fan

(65) Size **** attached to the main part of a hat

(66) Frame

[Translation done.]

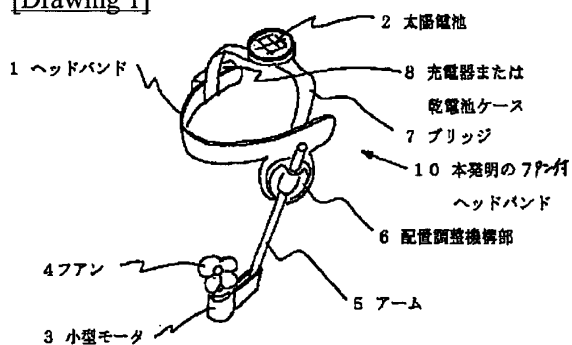
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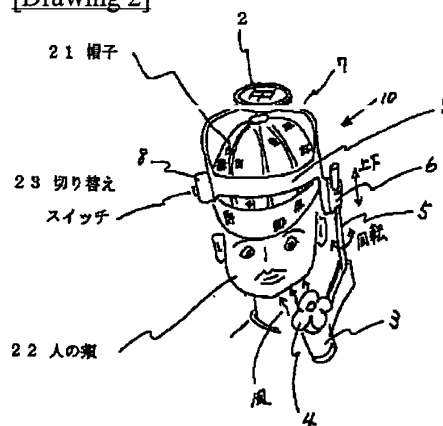
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DRAWINGS

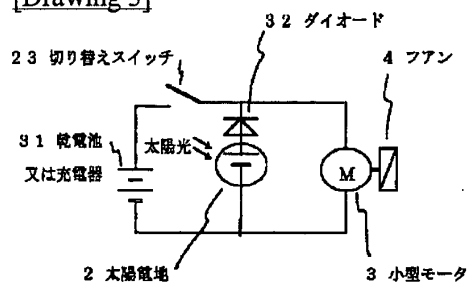
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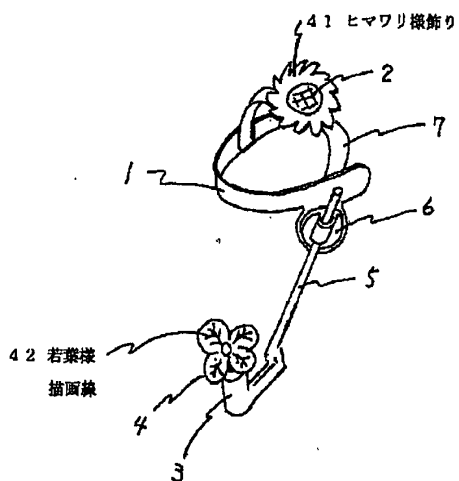
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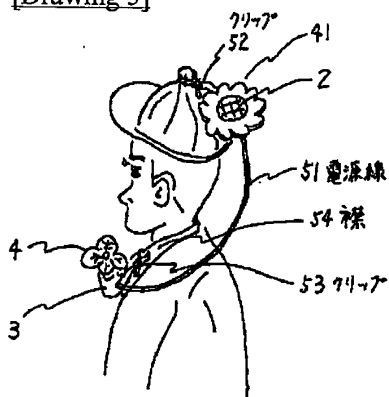
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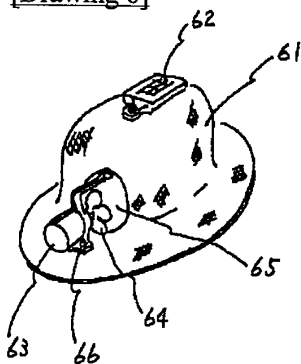
[Drawing 4]



[Drawing 5]



[Drawing 6]



[Translation done.]